

References: 1. Silvis SE, Griffin J, Hardin R, et al: Final report on the United States multicenter trial comparing ranitidine to cimetidine as maintenance therapy following healing of duodenal ulcer. *J Clin Gastroenterol* 1985;7(6):482-487. 2. Gough KR, Korman MG, Bardhan KD, et al: Ranitidine and cimetidine in prevention of duodenal ulcer relapse: A double-blind, randomised, multicentre, comparative trial. *Lancet* 1984;2:659-662.

ZANTAC® 150 Tablets
(ranitidine hydrochloride)
ZANTAC® 300 Tablets
(ranitidine hydrochloride)

BRIEF SUMMARY

The following is a brief summary only. Before prescribing, see complete prescribing information in ZANTAC® product labeling.

INDICATIONS AND USAGE: ZANTAC® is indicated in:

1. Short-term treatment of **active duodenal ulcer**. Most patients heal within four weeks.
2. **Maintenance therapy** for duodenal ulcer patients at reduced dosage after healing of acute ulcers.
3. The treatment of **pathological hypersecretory conditions** (eg, Zollinger-Ellison syndrome and systemic mastocytosis).
4. Short-term treatment of **active, benign gastric ulcer**. Most patients heal within six weeks and the usefulness of further treatment has not been demonstrated.
5. Treatment of **gastroesophageal reflux disease (GERD)**. Symptomatic relief commonly occurs within one or two weeks after starting therapy. Therapy for longer than six weeks has not been studied.

In active duodenal ulcer, active, benign gastric ulcer, hypersecretory states, and GERD, concomitant antacids should be given as needed for relief of pain.

CONTRAINDICATIONS: ZANTAC® is contraindicated for patients known to have hypersensitivity to the drug.

PRECAUTIONS: **General:** 1. Symptomatic response to ZANTAC® therapy does not preclude the presence of gastric malignancy.

2. Since ZANTAC is excreted primarily by the kidney, dosage should be adjusted in patients with impaired renal function (see DOSAGE AND ADMINISTRATION). Caution should be observed in patients with hepatic dysfunction since ZANTAC is metabolized in the liver.

Laboratory Tests: False-positive tests for urine protein with Multistix® may occur during ZANTAC therapy, and therefore testing with sulfosalicylic acid is recommended.

Drug Interactions: Although ZANTAC has been reported to bind weakly to cytochrome P-450 in vitro, recommended doses of the drug do not inhibit the action of the cytochrome P-450-linked oxygenase enzymes in the liver. However, there have been isolated reports of drug interactions that suggest that ZANTAC may affect the bioavailability of certain drugs by some mechanism as yet unidentified (eg, a pH-dependent effect on absorption or a change in volume of distribution).

Carcinogenesis, Mutagenesis, Impairment of Fertility: There was no indication of tumorigenic or carcinogenic effects in lifespan studies in mice and rats at doses up to 2,000 mg/kg/day.

Ranitidine was not mutagenic in standard bacterial tests (*Salmonella*, *Escherichia coli*) for mutagenicity at concentrations up to the maximum recommended for these assays.

In a dominant lethal assay, a single oral dose of 1,000 mg/kg to male rats was without effect on the outcome of two matings per week for the next nine weeks.

Pregnancy: Teratogenic Effects: Pregnancy Category B: Reproduction studies have been performed in rats and rabbits at doses up to 160 times the human dose and have revealed no evidence of impaired fertility or harm to the fetus due to ZANTAC. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed.

Nursing Mothers: ZANTAC is secreted in human milk. Caution should be exercised when ZANTAC is administered to a nursing mother.

Pediatric Use: Safety and effectiveness in children have not been established.

Use in Elderly Patients: Ulcer healing rates in elderly patients (65 to 82 years of age) were no different from those in younger age groups. The incidence rates for adverse events and laboratory abnormalities were also not different from those seen in other age groups.

ADVERSE REACTIONS: The following have been reported as events in clinical trials or in the routine management of patients treated with ZANTAC®. The relationship to ZANTAC therapy has been unclear in many cases. Headache, sometimes severe, seems to be related to ZANTAC administration.

Central Nervous System: Rarely, malaise, dizziness, somnolence, insomnia, and vertigo. Rare cases of reversible mental confusion, agitation, depression, and hallucinations have been reported, predominantly in severely ill elderly patients. Rare cases of reversible blurred vision suggestive of a change in accommodation have been reported.

Cardiovascular: Rare reports of tachycardia, bradycardia, and premature ventricular beats.

Gastrointestinal: Constipation, diarrhea, nausea/vomiting, and abdominal discomfort/pain.

Hepatic: In normal volunteers, SGPT values were increased to at least twice the pretreatment levels in 6 of 12 subjects receiving 100 mg qid IV for seven days, and in 4 of 24 subjects receiving 50 mg qid IV for five days. With oral administration there have been occasional reports of reversible hepatitis, hepatocellular or hepatocanalicular or mixed, with or without jaundice.

Musculoskeletal: Rare reports of arthralgias.

Hematologic: Reversible blood count changes (leukopenia, granulocytopenia, thrombocytopenia) have occurred in a few patients. Rare cases of agranulocytosis or of pancytopenia, sometimes with marrow hypoplasia, have been reported.

Endocrine: Controlled studies in animals and man have shown no stimulation of any pituitary hormone by ZANTAC and no antiandrogenic activity, and cimetidine-induced gynecomastia and impotence in hypersecretory patients have resolved when ZANTAC has been substituted. However, occasional cases of gynecomastia, impotence, and loss of libido have been reported in male patients receiving ZANTAC, but the incidence did not differ from that in the general population.

Integumentary: Rash, including rare cases suggestive of mild erythema multiforme, and, rarely, alopecia.

Other: Rare cases of hypersensitivity reactions (eg, bronchospasm, fever, rash, eosinophilia) and small increases in serum creatinine.

OVERDOSAGE: Information concerning possible overdosage and its treatment appears in the full prescribing information.

DOSAGE AND ADMINISTRATION: Active Duodenal Ulcer: The current recommended adult oral dosage is 150 mg twice daily. An alternate dosage of 300 mg once daily at bedtime can be used for patients in whom dosing convenience is important. The advantages of one treatment regimen compared to the other in a particular patient population have yet to be demonstrated.

Maintenance Therapy: The current recommended adult oral dosage is 150 mg at bedtime.

Pathological Hypersecretory Conditions (such as Zollinger-Ellison syndrome): The current recommended adult oral dosage is 150 mg twice a day. In some patients it may be necessary to administer ZANTAC® 150-mg doses more frequently. Doses should be adjusted to individual patient needs, and should continue as long as clinically indicated. Doses up to 6 g/day have been employed in patients with severe disease.

Benign Gastric Ulcer: The current recommended adult oral dosage is 150 mg twice a day.

GERD: The current recommended adult oral dosage is 150 mg twice a day.

Dosage Adjustment for Patients with Impaired Renal Function: On the basis of experience with a group of subjects with severely impaired renal function treated with ZANTAC, the recommended dosage in patients with a creatinine clearance less than 50 ml/min is 150 mg every 24 hours. Should the patient's condition require, the frequency of dosing may be increased to every 12 hours or even further with caution. Hemodialysis reduces the level of circulating ranitidine. Ideally, the dosage schedule should be adjusted so that the timing of a scheduled dose coincides with the end of hemodialysis.

HOW SUPPLIED: ZANTAC® 300 Tablets (ranitidine hydrochloride equivalent to 300 mg of ranitidine) are yellow, capsule-shaped tablets embossed with "ZANTAC 300" on one side and "Glaxo" on the other. They are available in bottles of 30 tablets (NDC 0173-0393-40) and unit dose packs of 100 tablets (NDC 0173-0393-47).

ZANTAC® 150 Tablets (ranitidine hydrochloride equivalent to 150 mg of ranitidine) are white tablets embossed with "ZANTAC 150" on one side and "Glaxo" on the other. They are available in bottles of 60 tablets (NDC 0173-0344-42) and unit dose packs of 100 tablets (NDC 0173-0344-47).

Store between 15° and 30°C (59° and 86°F) in a dry place. Protect from light. Replace cap securely after each opening.

May 1988

Glaxo

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Research Triangle Park, NC 27709

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Printed in USA

June 1988

MYOCARDITIS TREATMENT TRIAL

Patients in North America with biopsy-proven myocarditis may now be enrolled in an NIH-funded, placebo-controlled, randomized trial evaluating efficacy of cyclosporine. Referral of the patient is not necessary. Cyclosporine and a small grant are provided.

Contact: Dr Jay W. Mason
Cardiology Division
University of Utah Medical Center
50 North Medical Drive
Salt Lake City, Utah 84132
(801) 581-7715
Or if outside of Utah call:
(800) 441-5544

The Western Journal of Medicine

(ISSN 0093-0415/USPS 084 480) is published monthly for \$30 per year (USA and Canada) by the California Medical Association, 221 Main Street, San Francisco, CA 94105. Second-class postage paid at San Francisco, CA and additional mailing offices.

POSTMASTER: Send address changes to *The Western Journal of Medicine*, Circulation, P.O. Box 7602, San Francisco, CA 94120-7602.

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SINCE 1902

ISSN 0093-0415

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Official Journal of the Arizona Medical Association, the California Medical Association, the Idaho Medical Association, the Nevada State Medical Association, the New Mexico Medical Society, the Utah Medical Association, the Washington State Medical Association, and the Wyoming Medical Society.

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The subscription price per year is \$30 in the United States and Canada (US funds); \$50 in all other countries. Single copies are \$4.50. USA/CANADA postage and handling included. All other countries add US \$4.23 Air Printed Matter Postage. Address all subscription communications to:

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Manuscripts for consideration should be sent to the editor, Malcolm S. M. Watts, MD, PO Box 7602, San Francisco, CA 94120-7602.

"Information for Authors"—A complete guide to manuscript submission and WJM style appears in the January and July issues. Manuscripts may be prepared in accordance with the "Uniform Requirements for Manuscripts Submitted to Biomedical Journals" (*Annals of Internal Medicine*, Feb 1988; *The Medical Journal of Australia*, Feb 1988).

Author Responsibility—Authors are responsible for all statements, conclusions and methods of presenting subjects. Articles are accepted on condition that they are contributed solely to this journal.

Manuscripts—Ordinarily manuscripts should not exceed 3,000 words (less than 15 typed double-spaced pages). The original manuscript and two copies should be submitted, typed double-spaced throughout. If photographic illustrations are desired, three sets of clear, unmounted black and white glossy prints should be supplied. For line drawings, original artwork or glossy prints are acceptable. Tables should be typed on separate sheets of paper.

Clinical Investigation—Papers that authors wish considered for the Clinical Investigation section should be so designated in the transmittal letter. Such papers should describe experimental work in humans that extensively and prospectively examines scientific hypotheses relating to disease.

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ARIZONA

The following list of continuing medical education programs in Arizona is compiled by the Arizona Medical Association. All courses listed have been certified as meeting the criteria for Category I of the ArMA CME Certificate and the AMA Physicians Recognition Award. To list Category I continuing medical education programs, please send information to Arizona Medical Association, 810 West Bethany Home Road, Phoenix, AZ 85013; or phone (602) 246-8901.

Brochures and registration forms are available from the contact person or organization sponsoring the program.

October 21-23—**Diagnosis and Management of Respiratory Diseases.** The Boulders, Scottsdale. Fri-Sun. Contact: Medical Education Resources, 1 (800) 421-3756.

November 11-13—**17th Annual Seminar—Musculoskeletal Radiology.** Marriott's Camelback Inn, Scottsdale. Fri-Sun. Contact: Alex Newman, MD, Department of Radiology, Maricopa Medical Center, (602) 267-5361.

December 3-4—**Annual Meeting of the Arizona Chapter of the American College of Surgeons.** Rancho de los Caballeros, Wickenburg. Sat-Sun. Contact: Lee Ansel, MD, Program Chairman, (602) 251-3131.

March 4-8—**Third Annual Magnetic Resonance Imaging Conference.** Camelback Inn Resort, Scottsdale. Sat-Wed. Contact: Kevin King, Barrow Neurological Institute, (602) 285-3956.

CONTACT INFORMATION

ArMA—Contact: Arizona Medical Association, 810 W. Bethany Home Rd, Phoenix, AZ 85013. (602) 246-8901.

U of A—Contact: University of Arizona College of Medicine, Arizona Health Sciences Center, Tucson, AZ 85724. (602) 626-6707.

CALIFORNIA, HAWAII AND NEVADA

This listing of continuing education programs in California, Hawaii and Nevada is supplied by the Committee on Continuing Medical Education of the California Medical Association. All courses and meetings listed have been approved for Category I credit toward the CMA Certificate in Continuing Medical Education. To have accredited courses listed here, please send information at least two months in advance to Department of Continuing Medical Education, California Medical Association, PO Box 7690, San Francisco 94120-7690; or phone (415) 541-0900. For a list of organizations approved for Category I credit toward the CMA Certificate in Continuing Medical Education or for more information on accreditation or certification, please write to the above address.

ALLERGY

October 14—**18th Course on Allergy and Immunology.** Pacific Presbyterian Medical Center at San Francisco. Fri. Contact: Herbert S. Kaufman, MD, PPMC, 2340 Clay St, Rm 313, San Francisco 94115. (415) 923-3441.

ANESTHESIOLOGY

August 21-27—**Hawaiian Seminar on Clinical Anesthesia.** California Society of Anesthesiologists at Inter-Continental Hotel, Wailea, Maui. Sun-Sat. 20 hrs. \$325/\$375. Contact: CSA, 1065 E. Hilldale Blvd, Ste 410, Foster City 94404. (415) 345-3020.

September 10-11—**Case Conference in Anesthesia.** California Society of Anesthesiologists at High Sierra Hotel, Lake Tahoe. Sat-Sun. 9 hrs. \$160. Contact: CSA, 1056 E Hillsdale Blvd, Ste 410, Foster City 94404. (415) 345-3020.

September 30-October 1—**Anesthesia Practice 1988.** Anesthesiology Educational Foundation. Fri-Sun. 11 hrs. Contact: AEF, PO Box 24230, Federal Building, Los Angeles 90024. (213) 825-0736.

October 16-21—**Hawaiian Seminar on Clinical Anesthesia.** California Society of Anesthesiologists at Westin Maui Hotel, Maui. Sun-Fri. 20 hrs. \$325/\$375. Contact: CSA, 1065 Hilldale Blvd, Ste 410, Foster City 94404. (415) 345-3020.

January 15-20—**Hawaiian Seminar on Clinical Anesthesia.** California Society of Anesthesiologist at Sheraton Kauai Hotel, Poipu Beach, Kauai. Sun-Fri. 20 hrs. \$325. Contact: CSA, 1065 E Hillsdale Blvd, Ste 410, Foster City 94404. (415) 345-3020.

January 29-February 3—**Clinical Update in Anesthesiology.** Tucson Hospitals Medical Education Program at Stouffer's Wailea Beach Resort, Maui, Hawaii. Sun-Fri. Contact: Murray G. Atnikov, MD, c/o Box F110-63, Blaine, WA 98230. (604) 874-5291.

KEY TO ABBREVIATIONS

- CMA: California Medical Association
Contact: Continuing Medical Education, California Medical Association, PO Box 7690, San Francisco 94120-7690. (415) 541-0900.
- DREW: Charles R. Drew Postgraduate Medical School
Contact: Herbert M. Thomas, MD, MPH, Director of CME, Office of Continuing Education, Charles R. Drew Postgraduate Medical School, 1621 East 120th Street, Los Angeles 90059. (213) 603-3183.
- LLU: Loma Linda University
Contact: James J. Couperus, MD, Associate Dean for Educational Affairs, Loma Linda University School of Medicine, Loma Linda 92350.
- PMC: Pacific Medical Center
Contact: Continuing Education, Pacific Medical Center, PO Box 7999, San Francisco 94120. (415) 563-4321, ext 2761.
- STAN: Stanford University
Contact: Edward Rubenstein, MD, Associate Dean for Postgraduate Education, Medical School Office Building, Suite X-365, Stanford 94305-6114. (415) 723-5594.
- UCD: University of California, Davis
Contact: Ruth Feryok, Director, Office of Continuing Medical Education, University of California, Davis, School of Medicine, 2701 Stockton Boulevard, Sacramento 95817. (916) 453-5390.
- UCI: University of California, Irvine
Contact: Melvin I. Marks, MD, Assistant Dean, University of California, Irvine, California College of Medicine, c/o UCI/CME Program, Memorial Medical Center, 2801 Atlantic Avenue, Long Beach 90801-1428. (213) 595-3811, or (714) 856-5414, UCI Extension.
- UCLA: University of California, Los Angeles
Contact: Martin D. Shickman, MD, Director, Continuing Education in Medicine and the Health Sciences, PO Box 24902, UCLA, Los Angeles 90024. (213) 825-7241.
- UCSD: University of California, San Diego
Contact: Office of Continuing Medical Education, University of California, San Diego, School of Medicine (M-017), La Jolla 92093. (619) 534-3713.
- UCSF: University of California, San Francisco
Contact: Robert Maggio, Administrative Director, Extended Programs in Medical Education, School of Medicine, University of California, San Francisco 94143. (415) 476-4251.
- USC: University of Southern California
Contact: Phil R. Manning, MD, Associate Dean, Postgraduate Division, University of Southern California School of Medicine, 1975 Zonal Ave, KAM314, Los Angeles 90033. (213) 224-7051.

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CONTINUING MEDICAL EDUCATION

(Continued from Page 152)

February 4-10—**Clinical Update in Anesthesiology.** Biennial Western Conference on Anesthesiology at Stouffer's Wailea Beach Resort, Maui, Hawaii. Sat-Sun. Contact: Murray G. Atnikov, MD. (604) 874-5291.

CARDIOLOGY

August 25-26—**Advanced Fetal Heart Rate Monitoring.** Center for Health Education at Red Lion Resort, Santa Barbara. Thurs-Fri. Contact: The Center for Health Education, 2801 Atlantic Ave, PO Box 1428, Long Beach 90801.

October 21-22—**Arrhythmias: Interpretation, Diagnosis and Management.** Medical Education Resources at Hyatt on Union Square, San Francisco. Fri-Sat. \$295. Contact: Deborah Wilderson, MER, 5808 S. Rapp St, Ste 202, Littleton, CO 80120. (800) 421-3756.

DERMATOLOGY

August 21-28—**International Symposium: Hot Spots in Dermatology.** Kauai Medical Group at Molokai, Hawaii. One week. Contact: David Elperin, MD, 3420-B Kuhio Highway, Lihue, Hawaii 96766. (808) 245-1507.

EMERGENCY MEDICINE

August 22-26—**Postgraduate Institute for Emergency and Primary Care Physicians, Symposium II & Optional Advanced Emergency Procedures Laboratory.** UCSD. Mon-Fri. 32 hrs. \$450. Contact: UCSD.

August 29-September 2—**Topics in Emergency Medicine.** UCSF at Holiday Inn Union Square, San Francisco. Mon-Fri. 31 hrs. \$420. Contact: UCSF.

October 10-14—**Postgraduate Institute for Emergency and Primary Care Physicians, Symposium I & Optional Advanced Emergency Procedures Laboratory.** UCSD at Catamaran Resort Hotel, San Diego. Mon-Fri. 32 hrs. \$450. Contact: UCSD.

October 21-23—**Advanced Cardiac Life Support.** CPR Seminars at Ralph K. Davies Medical Center, San Francisco. Fri-Sun. Contact: CPR Seminars, 833 Market St, Ste 421, San Francisco 94103. (415) 543-7282.

November 4-6—**Management of the Child With Head Injury.** Children's Hospital Oakland at Monterey Conference Center and Hotel Pacific, Monterey. Fri-Sun. 12 hrs. \$280. Contact: Kim Leadon, Continuing Medical Education, Children's Hospital Oakland, 747-52nd St, Oakland 94609. (415) 428-3021.

November 7-10—**Emergency Medicine: A Critical Appraisal—Series II.** Emergency Medical Abstracts at Imperial Palace, Las Vegas, Nevada. Mon-Thurs. 20 hrs. \$375. Contact: Bob Coswill, Premier Conference Group, 5010 Edenhurst Ave, Los Angeles 90039. (800) 243-5976.

November 14-18—**Postgraduate Institute for Emergency and Primary Care Physicians, Symposium III & Optional Advanced Emergency Procedures Laboratory.** UCSD at Hanalei Hotel, Hawaii. Mon-Fri. 32 hrs. \$450. Contact: UCSD.

December 4-9—**Current Concepts in Emergency Care.** Institute for Emergency Medical Education at Royal Lahaina Resort, Maui, Hawaii. Sun-Fri. 25 hrs. Contact: Georgine Elich, Kailani World Travel, 4192 Meridian Ave, Bellingham, WA 98226. (800) 524-5264.

December 5-9—**Postgraduate Institute for Emergency and Primary Care Physicians, Symposium II & Optional Advanced Emergency Procedures Laboratory.** UCSD. Mon-Fri. 32 hrs. \$450. Contact: UCSD.

January 16-20—**Postgraduate Institute for Emergency and Primary Care Physicians and Optional Advanced Emergency Procedures Laboratory.** UCSD at San Diego Marriott Hotel & Marina. Mon-Fri. \$450. Contact: UCSD.

January 26-30—**Emergency Medicine: A Critical Appraisal—Series II.** Emergency Medical Abstracts at Maui Marriott, Maui, Hawaii. Thurs-Mon. 20 hrs. \$375. Contact: Bob Coswill, Premier Conference Group, 5010 Edenhurst Ave, Los Angeles 90039. (800) 243-5976.

January 27-29—**Advanced Cardiac Life Support.** CPR Seminars at Ralph K. Davies Medical Center, San Francisco. Fri-Sun. Contact: CPR Seminars, 833 Market St, Ste 421, San Francisco 94103. (415) 543-7282.

February 19-24—**Emergency Medicine.** UCD. Sun-Fri. Contact: UCD.

INTERNAL MEDICINE

August 21-26—**New Advances in Internal Medicine: Clinical Applications.** UCD at Hyatt Regency, Monterey. Sun-Fri. 23 hrs. \$410. Contact: UCD.

August 28-31—**Under Pressure II: Glaucoma 1988.** UCD at Hyatt Lake Tahoe, Incline Village, Nevada. Sun-Wed. 12 hrs. \$335. Contact: UCD.

September 8-10—**New Advances in Common Neurologic Disorders.** UCSD Division of Neurology at Catamaran Resort Hotel, San Diego. Thurs-Sat. 14 hrs. \$300. Contact: Shirley Kolkey, Conference Coordinator, 3770 Tansy, San Diego 92121. (619) 453-6222.

September 15-18—**Medical Acupuncture for Physicians: Part I.** UCLA at Bay View Plaza Holiday Inn, Santa Monica. Thurs-Sun. 200 hrs. \$3,200. Contact: UCLA.

September 22-24—**International Symposium on Medical Virology.** UCI at Ramada Renaissance Hotel, San Francisco. Thurs-Sat. Contact: Dr Luis M. de la Maza, Department of Pathology, Rt 84, UCI Medical Center, 101 City Drive S., Orange, 92668. (714) 634-6868.

October 4-7—**Rheumatology and Clinical Immunology.** UCSF at Stanford Court, San Francisco. Tues-Fri. 19 hrs. \$395. Contact: UCLA.

October 14-15—**13th Annual Clinical Neurosciences Symposium.** Dominican Neurologic Institute at Chaminade Conference Center, Santa Cruz. Fri-Sat. 11 hrs. \$350. Contact: Karen Rickenbach, Dominican Hospital, 1555 Soquel Dr, Santa Cruz 95065. (408) 462-7562.

November 3-5—**New Directions in Anti-viral Chemotherapy.** UCSF at Hyatt on Union Square, San Francisco. Thurs-Sat. \$100. Contact: UCSF.

November 7-9—**12th Annual Cancer Symposium.** Scripps Memorial Cancer Hospital at Sheraton Harbor Island Hotel E, San Diego. Mon-Wed. 21 hrs. \$390. Contact: Nomi Feldman, Conference Coordinator, 3770 Tansy St, San Diego 92121. (619) 453-6222.

November 11-14—**The Spine: Current Concepts of Diagnosis and Treatment.** The Spine Study Group at Marriott Desert Springs Resort, Palm Springs. Fri-Mon. \$250. Contact: The Spine Study Group, PO Box 33185, San Diego 92103. (619) 692-9115.

November 16—**Common Musculoskeletal Problems.** VA Medical Center Sepulveda. 6 hrs. Contact: Arun J. Mehta, Rehabilitation Medicine Service (117), VA Medical Center, Sepulveda 91343. (818) 891-2473.

December 1-2—**Recent Advances in Occupational Cancer.** UCSF at Hotel Meridien, San Francisco. Thurs-Fri. \$220. Contact: UCSF.

December 30-January 8—**Medical Acupuncture for Physicians: Part II.** UCLA at Bay View Plaza Holiday Inn, Santa Monica. 10 days. 200 hrs. \$3,200. Contact: UCLA.

January 6-7—**6th Annual Reider Laser Symposium—Urology.** Center for Health Education, Long Beach. Fri-Sat. Contact: UCI.

January 25-27—**12th Annual: Neurology for Non-Neurologists.** UCSD at Holiday Inn Embarcadero, San Diego. Wed-Fri. 21 hrs. \$400. Contact: Edith S. Bookstein, NNN, PO Box 2586, La Jolla 92038. (619) 454-3212.

OB/GYN

August 19-21—**1988—Office Gynecology for the Primary Care Physician.** Continuing Medical Education Associates and San Diego State University at Hyatt Islandia, San Diego. Fri-Sun. 18 hrs. \$295. Contact: Jacqueline Shiller, PO Box 84296, San Diego 92138. (619) 223-2997.

November 10-13—**Current Issues in Perinatal Medicine.** UCI at Marriott's Rancho Las Palmas Resort, Palm Springs. Thurs-Sat. Contact: UCI.

November 12—**Infertility Update V.** Scripps Clinic and Research Foundation Amphitheater, La Jolla. Sat. 7 hrs. \$110. Contact: Bonny Mower, Box 400S, Dept of Academic Affairs, 10666 N Torrey Pines Rd, La Jolla 92037. (619) 457-8556.

November 13-19—**11th Annual Review Course in Clinical Obstetrics & Gynecology.** The Center for Health Education at Westin South Coast Plaza Hotel, Costa Mesa. Sun-Sat. Contact: The Center for Health Education, 2081 Atlantic Ave., PO Box 1428, Long Beach, 90801-1428. (213) 595-3811.

January 6-7—**6th Annual Reider Laser Symposium—Gynecology.** Center for Health Education, Long Beach. Fri-Sat. Contact: UCI.

(Continued on Page 157)

CONTINUING MEDICAL EDUCATION

(Continued from Page 156)

January 29-February 2—**Ob/Gyn.** UCD at Hyatt Lake Tahoe, Incline Village, Nevada. Sun-Thurs. Contact: UCD.

ORTHOPEDICS

October 21-23—**Office Orthopedics for the Primary Care Physician.** Sharp Memorial Hospital at San Diego Princess. Fri-Sun. 20 hrs. \$395. Contact: Jacqueline Shiller, Medical Education, PO Box 84296, San Diego 92138. (619) 223-2997.

January 21-28—**Orthopaedic Emergencies.** Scripps Memorial Hospital Encinitas at Kona Surf Resort, Kona, Hawaii. One week. 21 hrs. \$395. Contact: Edith S. Bookstein, AIPE, PO Box 2586, La Jolla 92038. (619) 454-3212.

February 12—**1989 Interim Meeting of American Orthopaedic Society of Sports Medicine.** American Orthopaedics Society for Sports Medicine at Las Vegas, Nevada. Sun. Contact: AOSSM, 70 W Hubbard St, Ste 202, Chicago, IL 60610. (312) 644-2623.

PEDIATRICS

August 22-24—**Pediatrics Update: 1988.** San Diego State University at Hyatt Islandia, San Diego. Mon-Wed. 18 hrs. \$295. Contact: Jacqueline Shiller, PO Box 84296, San Diego 92138. (619) 223-2997.

September 24-25—**45th Annual Brennemann Memorial Lectures.** Los Angeles Pediatric Society at Los Angeles Hilton Hotel. Sat-Sun. \$175. Contact: Los Angeles Pediatric Society, PO Box 2022, Inglewood 90305.

October 13-16—**Advanced Fetal Heart Rate Monitoring.** Center for Health Education at Embassy Suites, Napa. Thurs-Sun. Contact: Center for Health Education, 2801 Atlantic Ave, PO Box 1428, Long Beach 90801-1428. (213) 595-3811.

October 15-20—**American Academy of Pediatrics Annual Session.** AAP. Sat-Thurs. Contact: AAP, 1801 Hinman Ave., Evanston, IL 60201.

October 22-29—**13th Annual Pediatrics for the Practitioner: A Pediatric Symposium.** Center for Health Education at Mauna Kea Beach Hotel, Hawaii. One week. Contact: The Center for Health Education, PO Box 1428, Long Beach 90801-1428.

November 4-6—**Current Advances in Pediatrics.** Orange County Psychiatric Society at Disneyland Hotel, Anaheim. Fri-Sun. 14 hrs. Contact: OCPS California Chapter 4, PO Box 1297, Orange 92668. (714) 978-2415.

December 3—**7th Annual Binational Pediatric Conference.** Children's Hospital San Diego at Mercy Hospital Educational Center, San Diego. Sat. 7 hrs. Contact: Continuing Medical Education Office, Children's Hospital, 8001 Frost St, San Diego 92123. (619) 576-4072.

January 27-29—**27th Clinical Conference in Pediatric Anesthesiology.** Pediatric Anesthesiology Foundation at Los Angeles Airport Marriott. Fri-Sun. 15 hrs. \$225. Contact: Katherine Barky, MD, Children's Hospital, PO Box 54700, Los Angeles 90054.

February 10-12—**Current Concepts in Pediatric Medicine.** Children's Hospital & Health Center at Marriott Hotel, San Diego. Wed-Fri. Contact: Children's Hospital & Health Center, Continuing Medical Education Office, 8001 Frost St, San Diego 92123. (619) 576-4072.

PSYCHIATRY

August 24-29—**The Neuropsychiatric Aspects of Politics and Politicians.** Southern California Neuropsychiatric Institute at Mauna Kea Beach Hotel, Hawaii. Wed-Mon. 24 hrs. Contact: Barbara Harwell, SCNPI, 6794 La Jolla Blvd, La Jolla 92037. (619) 454-2102.

November 18-20—**34th Annual Group Therapy Symposium.** UCSF. Fri-Sun. Contact: UCSF.

January 22-27—**15th Annual Midwinter Program for Psychiatrists.** UCD at Hyatt Lake Tahoe, Incline Village, Nevada. Sun-Fri. Contact: UCD.

RADIOLOGY

August 22-26—**Radiology: 1988 USC Radiology Summer Hawaiian Seminar.** USC at Kauai Westin, Lihue, Hawaii. Mon-Fri. 28 hrs. \$475. Contact: USC.

August 25-28—**Fourth Annual Physics and Biology of Radiology.** UCSD at La Jolla Village Inn. Thurs-Sat. 25 hrs. \$395. Contact: Mary J. Ryals and Associates, PO Box 920113, Norcross, GA 30092-0113. (404) 641-9773.

(Continued on Page 160)

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CONTINUING MEDICAL EDUCATION

(Continued from Page 157)

September 9-11—**Fourth Annual Sonography Update and Review Course.** UCSD at Hanalei Hotel, San Diego. Fri-Sun. 17 hrs. \$375. Contact: Mary J. Ryals and Associates, PO Box 920113, Norcross, GA 30092-0113. (404) 641-9773.

September 16-18—**Three-Day Seminar in Magnetic Resonance Imaging With Interpretive Workshops.** Los Angeles Radiological Society at Registry Hotel, Universal City. Fri-Sun. 18 hrs. \$300. Contact: LARS, PO Box 91215, Los Angeles 90009-1215. (213) 827-9078.

October 31-November 4—**13th Annual San Diego Postgraduate Radiology Course.** San Diego Radiology Research and Education Foundation at Hotel del Coronado, San Diego. Mon-Fri. 27 hrs. \$450. Contact: Dawne Ryals, Ryals & Associates, PO Box 1925, Roswell, GA 30077-1925. (404) 641-9773.

October 31-November 1—**San Diego Postgraduate Radiology Course.** UCSD at Hotel del Coronado, San Diego. Mon-Tues. 28 hrs. \$450. Contact: UCSD.

December 9-11—**Advanced Seminars in Diagnostic Imaging.** UCSD at Ritz-Carlton, Laguna Niguel. Fri-Sun. 18 hrs. \$395. Contact: Dawne Ryals, PO Box 920113, Norcross, GA 30092-0113. (404) 641-9773.

January 13-15—**Advanced Seminars in Diagnostic Imaging.** San Diego Radiology Research and Education Foundation at Ritz-Carlton Hotel, Laguna Niguel. Fri-Sun. 18 hrs. \$395. Contact: R. Dawne Ryals, PO Box 920113, Norcross 30092-0113. (404) 641-9773.

SURGERY

August 18-21—**Discussions of Current Hand Care Concepts.** Plastic Surgery Education Foundation at San Diego. Thurs-Sun. Contact: PSEF, 233 N. Michigan Ave, Suite 1900, Chicago, Illinois 60601.

September 16—**Ultrasonic Liver Surgery.** UCD at Hyatt Regency Hotel, Sacramento. Fri. 8 hrs. Contact: UCD.

September 17—**Summary of Clinical Use of Argon, YAG and CO₂ Lasers for Cutaneous Lesions.** Palo Alto Medical Foundation at Palo Alto Medical Clinic. Sat. 6 hrs. Contact: Palo Alto Medical Clinic, 300 Homer Ave, Palo Alto 94301. (415) 321-4121.

October 3-7—**6th Annual Comprehensive Review of Vascular Surgery.** UCLA Miramar Sheraton, Santa Monica. Mon-Fri. 32 hrs. \$595. Contact: UCLA.

October 12-14—**Hip and Knee Reconstructive Surgery 1988.** UCLA at Sheraton Princeville Hotel, Kauai, Hawaii. Wed-Fri. Contact: UCLA.

October 29-30—**1988 Regional Review Courses in Hand Surgery.** American Society for Surgery of the Hand at Los Angeles. Sat-Sun. 12 hrs. \$200. Contact: ASSH, 3025 S Parker Rd, Ste 65, Aurora, CO 80014. (303) 755-4588.

December 3—**Reider Laser YAG & Argon Laser/Brachytherapy Symposium.** Center for Health Education, Long Beach. Sat. 9 hrs. Contact: Center for Health Education, 2801 Atlantic Ave, PO Box 1428, Long Beach 90801-1428. (213) 595-3811.

December 3—**Summary of Clinical Use of Argon, YAG and CO₂ Lasers for Cutaneous Lesions.** Palo Alto Medical Foundation at Palo Alto Medical Clinic. Sat. 6 hrs. Contact: Palo Alto Medical Clinic, 300 Homer Ave, Palo Alto 94301. (415) 321-4121.

December 3—**Cleft Palate Symposium.** UCD at Hyatt Regency Hotel, Sacramento. Sat. Contact: UCD.

January 13-14—**11th Annual Postgraduate Course: What's New in General Surgery.** UCD at Red Lion Motor Inn, Sacramento. Fri-Sat. Contact: UCD.

OF INTEREST TO ALL PHYSICIANS

August 17-27—**31st Anniversary Postgraduate Refresher Course.** USC at Sheraton Waikiki and Westin Kauai, Hawaii. Wed-Sat. 41 hrs. \$535. Contact: USC.

August 18-19—**7th Annual Symposium: General Medicine Update for Practicing Physicians.** Northern Inyo Hospital, Bishop. Thurs-Fri. 10 hrs. Contact: Lynda Schmidt, Northern Inyo Hospital, 105 Pioneer Lane, Bishop 93514. (619) 873-5811.

August 21-31—**31st Anniversary Postgraduate Refresher Course.** USC at Westin Kauai and Mauna Kea, Hawaii. Sun-Wed. 41 hrs. \$535. Contact: USC.

August 26-28—**Primary Care Medicine: A Practical Approach.** Scripps Clinic and Research Foundation at Le Meridien Hotel Coronado Island, San Diego. Fri-Sun. 18 hrs. \$225. Contact: Bonny A. Mower, Dept of Academic Affairs, 400S, 10666 N Torrey Pines Rd, La Jolla 92037. (619) 457-8556.

September 10—**AIDS: A Practical Approach to Patient Care.** Sutter Health at Sacramento Inn. Sat. 7 hrs. \$55. Contact: Sutter Health, Continuing Medical Education, 1111 Howe Ave, Ste 155, Sacramento 95825. (916) 922-6568.

September 15-18—**Decentralized Care of People With AIDS: An Educational Seminar for Developmental Approach.** Sonoma County Academic Foundation for Excellence at Flamingo Hotel, Santa Rosa. Thurs-Sun. \$275. Contact: Mary Ellen Buechter, SSAFE, 3325 Chanate Rd, Santa Rosa, 95404. (707) 527-4121.

September 16-17—**AIDS and the Oncologist.** UCSF at Hotel Nikko, San Francisco. 13 hrs. \$225. Contact: UCSF.

September 16-17—**AIDS: A Practical Program Designed for Community Based Physicians.** UCD at Hyatt Regency Hotel, Sacramento. Fri-Sat. Contact: UCD.

September 17—**Treatment Issues With Adult Children of Alcoholics and Co-Alcoholics in Group and Individual Therapy.** Institute for Addiction Studies at Health Education Center, Oakland. Sat. \$55. Contact: Stephanie Ross, MPI/CDRH, 435 Hawthorne Ave, Oakland 94609-3081. (415) 652-7000.

September 23-25—**The Medical Office Laboratory: A Technological Revolution in Primary Care.** SDSU at San Diego Princess Resort. Fri-Sun. 18 hrs. Contact: SDSU.

September 24—**Lumbar Spine Disease: A Practical Approach for the Primary Care Practitioner.** Scripps Clinic and Research Foundation at Amphitheater, La Jolla. Sat. 5 hrs. \$50. Contact: Bonny A. Mower, Dept of Academic Affairs, Scripps Clinic and Research Foundation, 10666 N Torrey Pines Rd, La Jolla 92037. (619) 457-8556.

September 28-30—**Primary Care Medicine: Principles and Practice.** UCSF at the Portman Hotel, San Francisco. Wed-Fri. \$365. Contact: UCSF.

October 7-9—**Nutrition.** Center for Health Education at Hyatt Regency, Long Beach. Fri-Sun. Contact: Center for Health Education, 2801 Atlantic Ave, PO Box 1428, Long Beach 90801-1428. (213) 595-3811.

October 10-14—**Current Topics in Occupational Medicine.** UCSF at Cathedral Hill Hotel, San Francisco. Mon-Fri. 40 hrs. \$550. Contact: UCSF.

October 11-14—**Intervention Training.** Monterey Community Hospital Recovery Center, Monterey Conference Center. Tues-Fri. \$250. Contact: Nomi Feldman, Conference Coordinator, 3770 Tansy St, San Diego 92121. (619) 453-6222.

October 15-18—**Infectious Diseases: Part I of II.** EPIC Expeditions at Napa Valley. Sun-Tues. 12 hrs. Contact: EPIC Expeditions, PO Box 209, Sun Valley, ID 83353. (208) 788-4995.

October 19-22—**Infectious Diseases: Part II.** EPIC Expeditions at Sonoma Valley. Wed-Sun. 12 hrs. Contact: EPIC Expeditions, PO Box 209, Sun Valley, ID 83353. (208) 788-4995.

October 20-22—**What the Clinician Should Know About the Treatment of Chemical Dependence: A Review and Update for Physicians.** California Society for the Treatment of Alcoholism and Other Drug Dependencies at Los Angeles Airport Marriott. Thurs-Sat. 19 hrs. \$350. Contact: Gail Jara, California Society. 3803 Broadway, Oakland 94611. (415) 428-9091.

October 20-22—**Recent Advances in Pulmonary and Critical Care Medicine.** UCSF at Mark Hopkins Hotel, San Francisco. Thurs-Sat. 15 hrs. \$365. Contact: UCSF.

October 25—**Sexual Addiction and Chemical Dependency: The Hidden Connection.** Institute for Addiction Studies at Health Education Center, Oakland. Sat. \$55. Contact: Stephanie Ross, MPI/CDRH, 435 Hawthorne Ave, Oakland 94609. (415) 652-7000.

October 27-30—**Clinical Nutrition.** UCD at Sonoma Valley. Thurs-Sun. Contact: UCD.

October 31-November 3—**Intervention Workshop.** McDonald Center for Alcoholism and Drug Addiction Treatment at La Valencia Hotel, La Jolla. Mon-Thurs. 27 hrs. \$250. Contact: Nomi Feldman, Conference Coordinator, 3770 Tansy St, San Diego 92121. (619) 453-6222.

November 4-5—**UCD Multi-Specialty Update: Medical Advances of the 80's.** UCD at Sacramento. Fri-Sat. Contact: UCD.

(Continued on Page 161)

CONTINUING MEDICAL EDUCATION

(Continued from Page 160)

November 10-13—**Sexual Literacy: What is it? What do we know? What do we need to know? Whose responsibility is it?** The Society for the Scientific Study of Sex at the Cathedral Hill Hotel, San Francisco. Thurs-Sun. Contact: Bernard Goldstein, San Francisco State University, Biology Dept., 1600 Holloway Ave., San Francisco, 94132. (415) 338-1548.

December 1-3—**American Back Society Fall Symposium on Back Pain.** American Back Society at Hyatt Regency, San Francisco. Thurs-Sat. 19 hrs. Contact: American Back Society, 2647 E 14th St, Ste 401, Oakland 94601. (415) 536-9929.

December 24-30—**Advances in Medicine.** Symposium Maui at Royal Lahaina Resort, Kaanapali Beach, Maui, Hawaii. Sat-Fri. 15 hrs. \$400. Contact: Joe Harrison, MD, PO Box 10185, Lahaina, Hawaii 96761. (808) 661-8032.

January 19-22—**Health Science Response to Child Maltreatment: 1989.** Children's Hospital & Health Center at Omni Hotel, San Diego. Thurs-Sun. 17 hrs. Contact: Continuing Medical Education Office, Children's Hospital, 8001 Frost St, San Diego 92123. (619) 576-4072.

January 20-22—**Urology and Gynecology for Primary Care Physicians.** UCSD at Hyatt Islandia Hotel, San Diego. Fri-Sun. 13 hrs. Contact: Edith S. Bookstein, UREF, PO Box 2586, La Jolla 92038. (619) 454-3212.

February 25-March 4—**Update: Controversies in Emergency and Primary Care.** Scripps Memorial Hospital Encinitas at Royal Lahaina Resort, Maui, Hawaii. One week. 21 hrs. \$395. Contact: Edith S. Bookstein, AIPE, PO Box 2586, La Jolla 92038. (619) 454-3212.

IDAHO

August 25-27—**Imaging on Lake Coeur d'Alene.** Thurs-Sat. Contact: Kathy Fischer, Spokane, (509) 455-3352.

August 29-30—**Northwest Regional Perinatal Conference—Current Issues in Ob/Gyn, Neonatology and Pediatrics.** Inland Empire Perinatal Center at Coeur d'Alene Resort. Contact: Inland Empire Perinatal Center, 411 Medical Center Bldg, Spokane, WA 99204. (509) 624-3182.

September 2-5—**Strategies for Fitness and Health Promotion.** University of Arizona College of Medicine, Department of Family and Community Medicine, and Epic Expeditions at Sun Valley. 12 hrs. Contact: Kathy Rairigh, EPIC Expeditions, PO Box 209, Sun Valley, ID 83353. (208) 788-4995.

NEW MEXICO

Information, requests for accreditation and items to be listed should be sent to the chairman of the CME Committee, New Mexico Medical Society, 303 San Mateo NE, Suite 204, Albuquerque, NM 87108 at least two months in advance. For information on CME accreditation or on the CME requirements of the New Mexico Board of Medical Examiners, please write to the above address or call (505) 266-7868.

NOTE: Course information in the following listing is subject to change on occasion. Check with the sponsoring institution for current details.

September 8-10—**Concepts & Controversies in Perinatal Care.** Albuquerque. Thurs-Sat. Contact: UNM SOM, Office of CME, (505) 277-3942.

September 17-18—**NM Chapter, American College of Surgeons Scientific Meeting.** Ramada Classic, Albuquerque. Contact: Dorothy Welby, (505) 266-7868.

September 22-24—**Primary Care Update '88.** UNM Conference Center, Albuquerque. Thurs-Sat. Contact: UNM SOM, Office of CME, (505) 277-3942.

(Continued on Page 243)

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Yohimbine exerts a stimulating action on the mood and may increase anxiety. Such actions have not been adequately studied or related to dosage although they appear to require high doses of the drug. Yohimbine has a mild anti-diuretic action, probably via stimulation of hypothalamic centers and release of posterior pituitary hormone.

Reportedly, Yohimbine exerts no significant influence on cardiac stimulation and other effects mediated by B-adrenergic receptors; its effect on blood pressure, if any, would be to lower it; however no adequate studies are at hand to quantitate this effect in terms of Yohimbine dosage.

Indications: Yocon® is indicated as a sympatholytic and mydriatic. It may have activity as an aphrodisiac.

Contraindications: Renal diseases, and patient's sensitive to the drug. In view of the limited and inadequate information at hand, no precise tabulation can be offered of additional contraindications.

Warning: Generally, this drug is not proposed for use in females and certainly must not be used during pregnancy. Neither is this drug proposed for use in pediatric, geriatric or cardio-renal patients with gastric or duodenal ulcer history. Nor should it be used in conjunction with mood-modifying drugs such as antidepressants, or in psychiatric patients in general.

Adverse Reactions: Yohimbine readily penetrates the (CNS) and produces a complex pattern of responses in lower doses than required to produce peripheral a-adrenergic blockade. These include, anti-diuresis, a general picture of central excitation including elevation of blood pressure and heart rate, increased motor activity, irritability and tremor. Sweating, nausea and vomiting are common after parenteral administration of the drug.^{1,2} Also dizziness, headache, skin flushing reported when used orally.^{1,3}

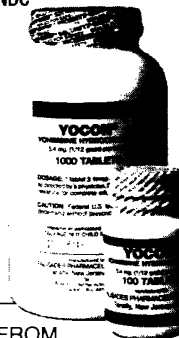
Dosage and Administration: Experimental dosage reported in treatment of erectile impotence.^{1,3,4} 1 tablet (5.4 mg) 3 times a day, to adult males taken orally. Occasional side effects reported with this dosage are nausea, dizziness or nervousness. In the event of side effects dosage to be reduced to ½ tablet 3 times a day, followed by gradual increases to 1 tablet 3 times a day. Reported therapy not more than 10 weeks.³

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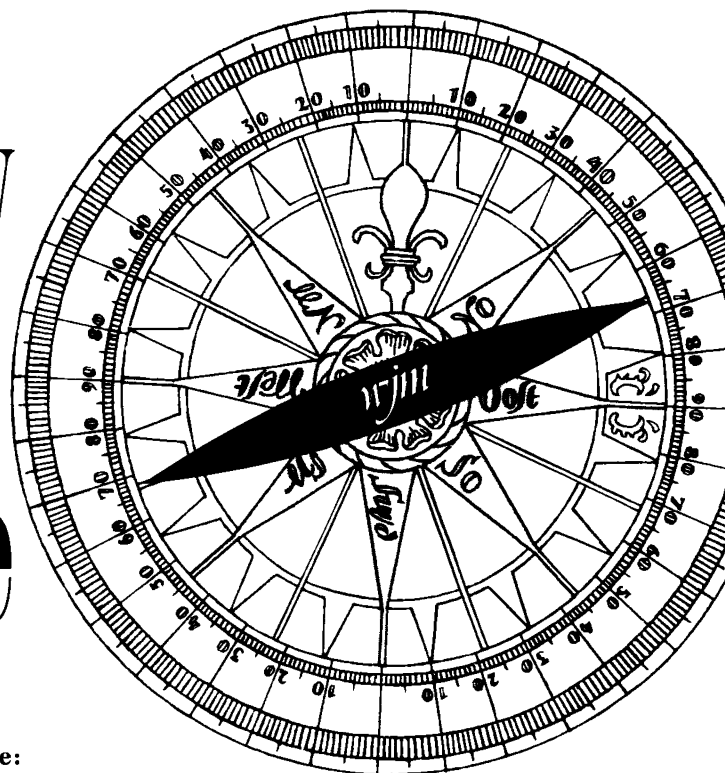
1. A. Morales et al., New England Journal of Medicine: 1221. November 12, 1981.
2. Goodman, Gilman — The Pharmacological basis of Therapeutics 6th ed., p. 176-188. McMillan December Rev. 1/85.
3. Weekly Urological Clinical letter, 27:2, July 4, 1983.
4. A. Morales et al., The Journal of Urology 128: 45-47, 1982.

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CONTINUING MEDICAL EDUCATION

(Continued from Page 161)

October 1—**Breastfeeding in the 21st Century: Concepts, Controversies and Advanced Practice.** Albuquerque. Ramada Hotel Classic. Contact: Lact-Natch Breastfeeding Clinic, 3620 Wyoming NE, #102, Albuquerque 87111. (505) 298-6243.

October 6-8—**Management of Radiation Accidents.** Sheraton Old Town Hotel, Albuquerque. Thurs-Sat. Contact: UNM SOM, Office of CME, (505) 277-3942.

October 7-8—**4th Annual Balloon Fiesta Lung Conference.** Fri-Sat. Contact: Billie Dytzel, NM Chapter, American Thoracic Society, 216 Truman NE, Albuquerque 87108. (505) 265-0732.

October 18-21—**Epidemiologic & Methodologic Problems in Determining Nutritional Status of Older Persons.** Sheraton Old Town Hotel, Albuquerque. Tues-Fri. Contact: UNM SOM, Office of CME, (505) 277-3942.

October 28-29—**New Mexico Medical Society Interim Meeting and Loss Control Seminar,** Physicians Mutual Liability Insurance Co. Journal Center Pyramid Holiday Inn, Albuquerque. Fri-Sat. Contact: New Mexico Medical Society, 303 San Mateo NE, Albuquerque 87108. (505) 266-7868.

November 11-13—**Adolescent Medicine.** Hilton Inn, Las Cruces. Fri-Sun. Contact: Marilyn Stark, NM Chapter, American Academy of Pediatrics, 7605 Mountain NE, Albuquerque 87110. (505) 265-7431.

December 1-3—**American College of Physicians—New Mexico Scientific Meeting.** Hilton Hotel, Albuquerque. Thurs-Sat. Contact: UNM SOM, Office of CME, (505) 277-3942.

December 9-10—**Trauma Update '88.** Clarion Four Seasons Hotel, Albuquerque. Fri-Sat. Contact: UNM SOM, Office of CME, (505) 277-3942.

February 24-26—**17th Annual New Mexico Thoracic Society Lung Disease Conference.** Taos. Contact: Billie Dytzel, NM Chapter, American Thoracic Society, 217 Truman NE, Albuquerque 87108. (505) 265-0732.

UTAH

This listing of continuing medical education courses in Utah is compiled and edited by the CME office of the Utah Medical Association. All courses listed have been certified by CME accredited institutions as meeting the criteria for Category 1 of the Physician's Recognition Award of the American Medical Association. They also must meet the definition of Utah Approved CME Credit for the purpose of medical license reregistration in Utah. Accredited institutions wishing to list AMA Category 1/Utah Approved CME courses here should send information at least two months in advance to the Office of Continuing Medical Education, 540 East Fifth South, Salt Lake City, Utah 84102; or phone (801) 355-5290. For information on CME accreditation or on the CME requirements of the Utah Physicians' Licensing Board, please write the CME office at the above address.

NOTE: Course information in the following listing is subject to change on occasion. Check with the sponsoring institution or the CME office for current details.

MEDICAL GRAND ROUNDS

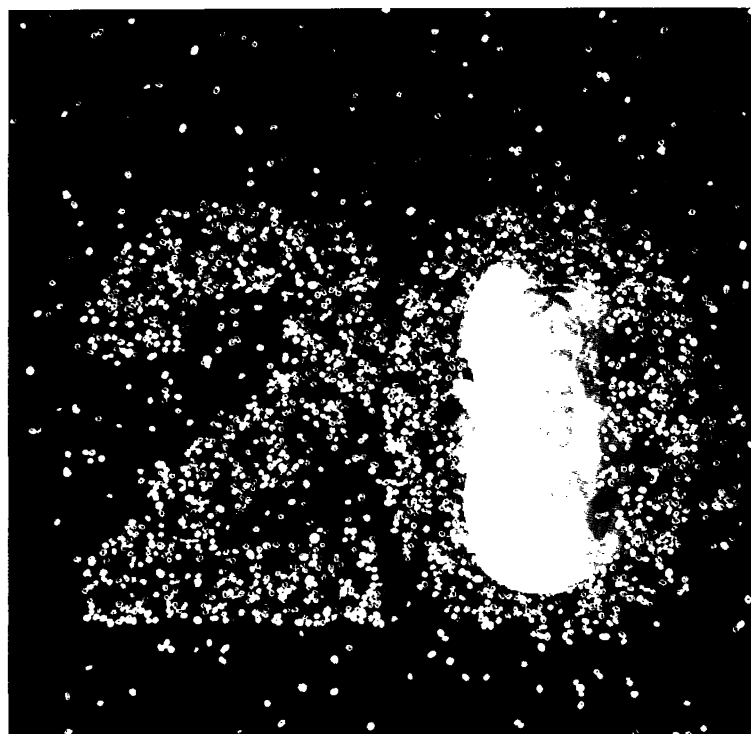
Each Wed—8:00-9:00 a.m. Alternating between University of Utah Medical Center and VA Medical Center, Salt Lake City. Contact: William D. Odell, MD, PhD, Professor and Chairman, Dept of Internal Medicine, Univ of Utah, (801) 581-7606.

* * *

August 13-15—**Retrieved Implants and Biomaterials** (Sponsor: UUMC). Snowbird, Cliff Lodge. Fri-Sun. Contact: Rosalie Lammle, (801) 581-8664.

September 22-24—**Central Association of Obstetricians & Gynecologists** (Sponsor: UUMC). Thurs-Sat. 10.5 hrs. Salt Lake City Marriott. Contact: (801) 333-0988.

(Continued on Page 244)



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Please see next page for brief summary of prescribing information.

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K-DUR™ Microburst Release System (potassium chloride) Sustained Release Tablets

INDICATIONS AND USAGE: BECAUSE OF REPORTS OF INTESTINAL AND GASTRIC ULCERATION AND BLEEDING WITH SLOW-RELEASE POTASSIUM CHLORIDE PREPARATIONS, THESE DRUGS SHOULD BE RESERVED FOR THOSE PATIENTS WHO CANNOT TOLERATE OR REFUSE TO TAKE LIQUID OR EFFERVESCENT POTASSIUM PREPARATIONS OR FOR PATIENTS IN WHOM THERE IS A PROBLEM OF COMPLIANCE WITH THESE PREPARATIONS.

1. For therapeutic use in patients with hypokalemia with or without metabolic alkalosis, in digitalis intoxication and in patients with hypokalemic familial periodic paralysis.

2. For the prevention of potassium depletion when the dietary intake is inadequate in the following conditions: Patients receiving digitalis and diuretics for congestive heart failure, hepatic cirrhosis with ascites, states of aldosterone excess with normal renal function, potassium-losing nephropathy, and with certain diarrheal states.

3. The use of potassium salts in patients receiving diuretics for uncomplicated essential hypertension is often unnecessary when such patients have a normal dietary pattern. Serum potassium should be checked periodically, however, and if hypokalemia occurs, dietary supplementation with potassium-containing foods may be adequate to control milder cases. In more severe cases supplementation with potassium salts may be indicated.

CONTRAINDICATIONS: Potassium supplements are contraindicated in patients with hyperkalemia since a further increase in serum potassium concentration in such patients can produce cardiac arrest. Hyperkalemia may complicate any of the following conditions: Chronic renal failure, systemic acidosis such as diabetic acidosis, acute dehydration, extensive tissue breakdown as in severe burns, adrenal insufficiency, or the administration of a potassium-sparing diuretic (e.g., spironolactone, triamterene).

Wax-matrix potassium chloride preparations have produced esophageal ulceration in certain cardiac patients with esophageal compression due to enlarged left atrium.

All solid dosage forms of potassium chloride supplements are contraindicated in any patient in whom there is cause for arrest or delay in tablet passage through the gastrointestinal tract. In these instances, potassium supplementation should be with a liquid preparation.

WARNINGS: Hyperkalemia—In patients with impaired mechanisms for excreting potassium, the administration of potassium salts can produce hyperkalemia and cardiac arrest. This occurs most commonly in patients given potassium by the intravenous route but may also occur in patients given potassium orally. Potentially fatal hyperkalemia can develop rapidly and be asymptomatic. The use of potassium salts in patients with chronic renal disease, or any other condition which impairs potassium excretion, requires particularly careful monitoring of the serum potassium concentration and appropriate dosage adjustment.

Interaction with Potassium-Sparing Diuretics—Hypokalemia should not be treated by the concomitant administration of potassium salts and a potassium-sparing diuretic (e.g., spironolactone or triamterene) since the simultaneous administration of these agents can produce severe hyperkalemia.

Gastrointestinal Lesions—Potassium chloride tablets have produced stenotic and/or ulcerative lesions of the small bowel and deaths. These lesions are caused by a high localized concentration of potassium ion in the region of a rapidly dissolving tablet, which injures the bowel wall and thereby produces obstruction, hemorrhage or perforation.

K-DUR tablets contain micro-crystalloids which disperse upon disintegration of the tablet. These micro-crystalloids are formulated to provide a controlled release of potassium chloride. The dispersibility of the micro-crystalloids and the controlled release of ions from them are intended to minimize the possibility of a high local concentration near the gastrointestinal mucosa and the ability of the KCl to cause stenosis or ulceration. Other means of accomplishing this (e.g., incorporation of potassium chloride into a wax matrix) have reduced the frequency of such lesions to less than one per 100,000 patient years (compared to 40–50 per 100,000 patient years with enteric-coated potassium chloride) but have not eliminated them. The frequency of GI lesions with K-DUR tablets is, at present, unknown. K-DUR tablets should be discontinued immediately and the possibility of bowel obstruction or perforation considered if severe vomiting, abdominal pain, distention, or gastrointestinal bleeding occurs.

Metabolic Acidosis—Hypokalemia in patients with metabolic acidosis should be treated with an alkalinizing potassium salt such as potassium bicarbonate, potassium citrate, potassium acetate, or potassium gluconate.

PRECAUTIONS: The diagnosis of potassium depletion is ordinarily made by demonstrating hypokalemia in a patient with a clinical history suggesting some cause for potassium depletion. In interpreting the serum potassium level, the physician should bear in mind that acute alkalosis per se can produce hypokalemia in the absence of a deficit in total body potassium while acute acidosis per se can increase the serum potassium concentration into the normal range even in the presence of a reduced total body potassium. The treatment of potassium depletion, particularly in the presence of cardiac disease, renal disease, or acidosis requires careful attention to acid-base balance and appropriate monitoring of serum electrolytes, the electrocardiogram, and the clinical status of the patient.

Laboratory Tests: Regular serum potassium determinations are recommended. In addition, during the treatment of potassium depletion, careful attention should be paid to acid-base balance, other serum electrolyte levels, the electrocardiogram, and the clinical status of the patient, particularly in the presence of cardiac disease, renal disease, or acidosis.

Drug Interactions: Potassium-sparing diuretics; see **WARNINGS**.

Carcinogenesis, Mutagenesis, Impairment of Fertility: Long-term carcinogenicity studies in animals have not been performed.

Pregnancy Category C: Animal reproduction studies have not been conducted with K-DUR. It is also not known whether K-DUR can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. K-DUR should be given to a pregnant woman only if clearly needed.

Nursing Mothers: The normal potassium ion content of human milk is about 13 mEq per liter. Since oral potassium becomes part of the body potassium pool, so long as body potassium is not excessive, the contribution of potassium chloride supplementation should have little or no effect on the level in human milk.

Pediatric Use: Safety and effectiveness in children have not been established.

ADVERSE REACTIONS: One of the most severe adverse effects is hyperkalemia (see **CONTRAINDICATIONS**, **WARNINGS**, and **OVERDOSAGE**). There have also been reports of upper and lower gastrointestinal conditions including obstruction, bleeding, ulceration, and perforation (see **CONTRAINDICATIONS** and **WARNINGS**); other factors known to be associated with such conditions were present in many of these patients.

The most common adverse reactions to oral potassium salts are nausea, vomiting, abdominal discomfort, and diarrhea. These symptoms are due to irritation of the gastrointestinal tract and are best managed by taking the dose with meals or reducing the dose.

Skin rash has been reported rarely.

OVERDOSAGE: The administration of oral potassium salts to persons with normal excretory mechanisms for potassium rarely causes serious hyperkalemia. However, if excretory mechanisms are impaired or if potassium is administered too rapidly intravenously, potentially fatal hyperkalemia can result (see **CONTRAINDICATIONS** and **WARNINGS**). It is important to recognize that hyperkalemia is usually asymptomatic and may be manifested only by an increased serum potassium concentration and characteristic electrocardiographic changes (peaking of T-waves, loss of P-waves, depression of S-T segment, and prolongation of the QT interval). Late manifestations include muscle-paralysis and cardiovascular collapse from cardiac arrest.

Treatment measures for hyperkalemia include the following:

1. Elimination of foods and medications containing potassium and of potassium-sparing diuretics.
2. Intravenous administration of 300 to 500 mEq/hr of 10% dextrose solution containing 10–20 units of insulin per 1,000 ml.

3. Correction of acidosis, if present, with intravenous sodium bicarbonate.

4. Use of exchange resins, hemodialysis, or peritoneal dialysis.

In treating hyperkalemia, it should be recalled that in patients who have been stabilized on digitalis, too rapid a lowering of the serum potassium concentration can produce digitalis toxicity.

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CONTINUING MEDICAL EDUCATION

(Continued from Page 243)

SPONSORS OF COURSES—ABBREVIATIONS

- AHA: American Heart Association, Utah Affiliate, 645 E 400 South, Salt Lake City 84102. (801) 322-5601.
- BYUHS: Brigham Young University Health Services, McDonald Student Health Center, Brigham Young University, Provo 84602. (801) 378-2771.
- CH: Castlevue Hospital (formerly Carbon Hospital), RFD 2, Box 46, Price 84501. (801) 637-4800.
- CWH: Cottonwood Hospital, 5770 S 300 East, Salt Lake City 84101. (801) 262-3461.
- DMC: Dixie Medical Center, 544 S 400 East, St George 84770. (801) 673-9681.
- HCH: Holy Cross Hospital, 1045 E First South, Salt Lake City 84102. (801) 350-4744.
- ITS: Intermountain Thoracic Society, 1616 S 11th East, Salt Lake City 84105. (801) 484-4456.
- LDSH: LDS Hospital, 8th Ave and "C" St, Salt Lake City 84143. (801) 321-1100.
- LRH: Logan Regional Hospital, 1400 N 5th East, Logan 84321. (801) 752-2050.
- MDH: McKay-Dee Hospital Center, 3939 Harrison Blvd, Ogden 84409. (801) 399-4141.
- MVH: Mountain View Hospital, 1000 E Highway 6, Payson 84651. (801) 465-9201.
- 144: 144th Evacuation Hospital, PO Box 8000, Salt Lake City 84108. (801) 524-3924.
- OSS: Ogden Surgical Society, PO Box 9311, Ogden 84409.
- PCMC: Primary Children's Medical Center, 320 12th Ave, Salt Lake City 84103. (801) 363-1221.
- PVH: Pioneer Valley Hospital, 3460 S 4155 West, West Valley City 84120. (801) 968-9061.
- SMH: St Mark's Hospital, 1200 E 3900 South, Salt Lake City 84117. (801) 268-7111.
- UOS: Utah Ophthalmological Society, 540 E 500 South, Salt Lake City 84102. (801) 355-7477.
- USH: Utah State Hospital, PO Box 270, Provo 84603-0270. (801) 373-4400.
- UUMC: University of Utah Medical Center, 50 N Medical Dr, Salt Lake City 84132. (801) 581-2258.
- UVRMC: Utah Valley Regional Medical Center, 1034 N Fifth West, Provo 84604. (801) 373-7850.
- VAMC: Veterans Administration Medical Center, 500 Foothill Dr, Salt Lake City 84148. (801) 582-1565.
- VVMC: Valley View Medical Center, 595 S 75 East, Cedar City 84720. (801) 586-6587.

WASHINGTON

This listing of continuing medical education programs in Washington state is compiled by the Washington State Medical Association. To list Category 1 programs here please send information at least two months in advance to Continuing Medical Education, Washington State Medical Association, 2033 Sixth Avenue, Suite 900, Seattle, WA 98121; or phone (206) 441-WSMA.

Brochures and registration forms are available from the contact person or organization listed at the end of each course or in the list of course sponsors and contact information.

August 29—**NW Regional Perinatal Conference: Current Issues in OB/GYN, Neonatology and Pediatrics.** Coeur d'Alene, Idaho. Thurs. Contact: (509) 624-3182.

August 31–September 3—**Second International Forum of Otorhinolaryngology.** Seattle. Wed-Sat. Contact: U/W, Maria Lilja, (206) 543-1050.

September 9—**Update on Anxiety and Depression.** Seattle. Fri. Contact: U/W, Maria Lilja, (206) 543-1050.

September 12–16—**16th Annual Family Practice Review Course.** Seattle. Mon-Fri. Contact: U/W, Maria Lilja, (206) 543-1050.

September 17–24—**Effective Management of Common Sports Injuries.** San Juan Islands. Sat-Sat. Contact: Kathy Rairigh, EPIC Expeditions, (208) 788-4995.

September 19–20—**Focus: Critical Care 1988.** Tacoma. Mon-Tues. Contact: Tacoma General Hospital. (206) 594-1268.

September 22–23—**Non-Ionizing Radiation.** Seattle. Thurs-Fri. Contact: U/W, (206) 543-1069.

September 22–24—**Orthopedic Biomechanics.** Seattle. Thurs-Sat. Contact: VMMC.

October 12—**Management of Chemical Hazards.** Seattle. Mon. Contact: U/W, (206) 543-1069.

October 27–28—**Annual Current Concepts in Drug Therapy.** Seattle. Thurs-Fri. Contact: U/W, Maria Lilja, (206) 543-1050.

(Continued on Page 250)



AIDS— A Global Perspective

The short and remarkable history of AIDS epidemiology began in 1981 with the description of the clinical syndrome in California and New York. In the 6 years that have followed, intensive epidemiologic studies have defined the mode of spread of AIDS and laid the foundation for current control efforts. Serosurveys and retrospective clinical studies have been used to trace the temporal origins of the pandemic prior to 1981, while prospective studies and an increasingly comprehensive worldwide surveillance system have provided more accurate data for the years following 1981. AIDS cases have now been reported and investigated throughout the world.

This issue, from the Special Programme on AIDS of the World Health Organization, considers the methods and limitations of AIDS case reporting and HIV serologic studies, summarizes modes of HIV transmission, defines geographic patterns of spread, and examines the epidemiology of HIV infections by continent.

—Jonathan M. Mann, MD
Director,
Special Programme on AIDS
World Health Organization,
Geneva

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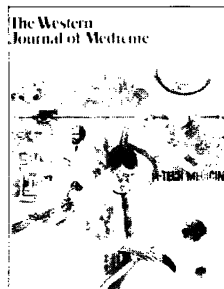


Medical Informatics

Iwould suggest that the computer in its relation to medicine is analogous to that of the microscope in the last century. . . . The analogous role that I believe the computer is now taking on is also that of a breakthrough tool—one enabling us to explore and better understand the informational and cognitive foundations of medicine. Its application to the classification and retrieval of data and to the management of information will result in a deeper insight into the structure of medical information and knowledge itself.

—Marsden S. Blois,
PhD, MD

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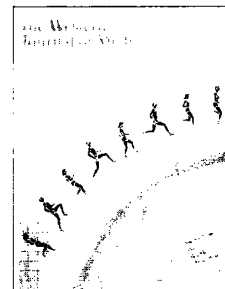


High-Tech Medicine

Progress in medical science seems to come in rushes. There are long periods of time during which we mainly fine-tune the status quo: third-generation drugs, better optics for endoscopes, more accurate assays, rapid development of x-ray film and so forth. Then, out of nowhere, a surge of new discoveries whose potential applications to medical practice seem limitless takes our breath away. We are now in such an epoch. Powerful and precise lasers. Almost unbelievable organ transplantation. Complex and uniquely informative magnetic resonance imaging and positron emission tomography. Exquisitely specific monoclonal antibodies. And the immense potential of modern molecular biology. This rush of new advances, collapsed into such a brief period of time, boggles the mind.

—R. Paul Robertson, MD

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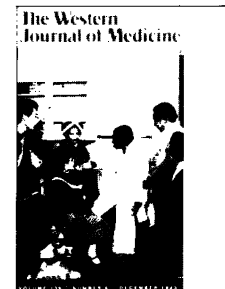


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Arizona Medical Association, Inc—810 W Bethany Home Rd, Phoenix 85013. (602) 246-8901. Annual Meeting: 1989, date and place to be announced.

California Medical Association—PO Box 7690, San Francisco 94120-7690. (415) 541-0900. Annual Meeting: March 3-8, 1989, Disneyland Hotel, Anaheim.

Colorado Medical Society—PO Box 17550, Denver 80217-0550. (303) 779-5455. Annual Meeting: September 15-17, 1988, Marriott City Center, Denver.

Hawaii Medical Association—1360 S Beretania, Honolulu 96814. (808) 536-7702. Annual Meeting: October 10-12, 1987, Kauai Surf, Kauai.

Idaho Medical Association—305 W Jefferson, PO Box 2668, Boise 83701. (208) 344-7888. Annual Meeting: 1989, date and place to be announced.

Montana Medical Association—2012 11th Ave, Suite 12, Helena 59601. (406) 443-4000. Annual Meeting: September 29-October 1, 1988, Heritage Inn, Great Falls.

Nevada State Medical Association—3660 Baker Lane, Reno 89502. (702) 825-6788. Annual Meeting: 1989, date and place to be announced.

New Mexico Medical Society—303 San Mateo NE, Suite 204, Albuquerque 87108. (505) 266-7868. Annual Meeting: 1989, date and place to be announced.

Oregon Medical Association—5210 SW Corbett Ave, Portland 97201. (503) 226-1555. Annual Meeting: (House of Delegates only): November 6-8, 1987, Portland.

Utah Medical Association—540 E Fifth South, Salt Lake City 84102. (801) 355-7477. Annual Meeting: September 21-23, 1988, University Park Hotel, Salt Lake City.

Washington State Medical Association—900 United Airlines Bldg, 2033 6th Ave, Seattle 98121. (206) 441-WSMA. Annual Meeting: September 15-18, 1988, Yakima.

Wyoming Medical Society—PO Drawer 4009, Cheyenne 82003-4009. (307) 635-2424. Annual Meeting: 1989, date and place to be announced.

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